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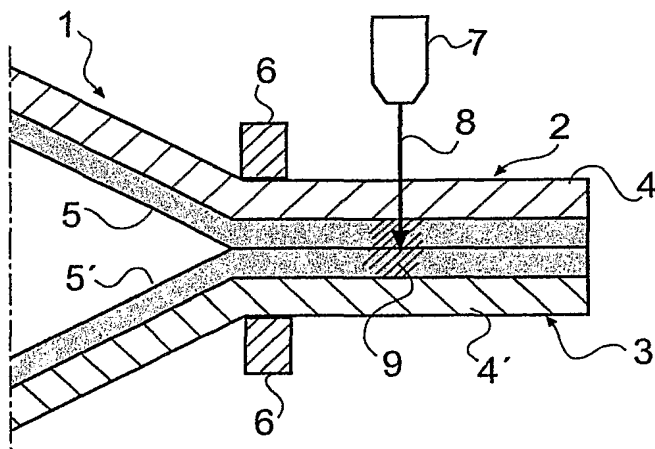
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(54) Title: METHOD FOR SEALING A FIBER-BASED MATERIAL



(57) Abstract: The invention relates to a  
method for sealing a fibre-based material  
(1, 4) to a counter-surface to be bonded to  
it by melting polymer present at the sealing  
point. In accordance with the invention, the  
sealing is performed by directing a laser beam  
(8) through the fibre layer (4) of the material  
to a radiation-absorbing pigment disposed  
in the sealing area (9), with the absorption  
heat melting the polymer (5) and generating  
the sealing. The method allows sealing of  
plastic-coated paper or board to itself, to another  
plastic counter-surface or also to paper or board  
without any plastic coating. It is also possible  
to seal uncoated paper or board to paper or board  
containing plastic, such as plastic-coated paper  
or board, or to a plastic film. The absorptive  
pigment, e.g. carbon black, may be admixed  
in the plastic coating of the board or paper or  
the plastic film formed on the counter-surface,  
or the pigment may be located on the surface of

the material to be sealed or its fibre layer, or on the counter-surface to which the material is sealed, e.g. as a component of printing  
ink applied to the counter-surface.

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